

### ABSTRACT

The present invention is a method for adjusting a timing of at least one first base station to maintain synchronization with a neighboring base station. An estimation of a timing accuracy associated with each said at least one first base station with respect to said neighboring base station is determined. For each of the first base station having its timing accuracy over a threshold, a first message to transmit a communication burst is received by the first base station. The communication burst is then received by the neighboring base station and a measurement of an estimated time difference between the first base station and the neighboring base stations in response to a second message is made. The first base station's timing is then adjusted in response to the measurement.